

**ABSTRACT**

5      **NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS AND  
THEIR USE IN DIAGNOSING AND TREATING ATHEROSCLEROSIS**

Isolated polynucleotides encoding novel polypeptides which are capable of binding to native and methylated LDL (low density lipoprotein), the isolated 10 polypeptides, called LBPs (LDL binding proteins), and biologically active fragments and analogs thereof, are described. Also described are methods for determining if an animal is at risk for atherosclerosis, methods for evaluating an agent for use in treating atherosclerosis, methods for treating atherosclerosis, and methods for treating a cell having an abnormality in structure or metabolism of LBP. Pharmaceutical compositions 15 and vaccine compositions are also provided.